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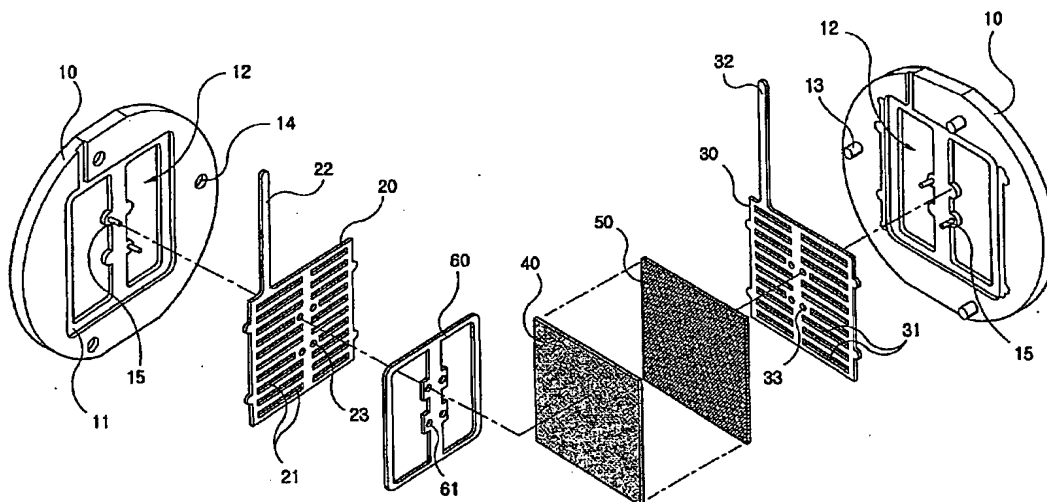
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(54) Title: AN APPARATUS FOR PRODUCING OZONE BY ELECTROLYSIS



(57) Abstract: The present invention discloses an apparatus for producing ozone by electrolysis of water. The apparatus comprises a pair of frames facing each other, and an anode and a cathode oppositely arranged between the two pieces of frames. Between the anode and the cathode is provided a solid polymer electrolyte membrane for transferring hydrogen ions formed during electrolysis. In addition, an auxiliary electrode is provided between the cathode and the solid polymer electrolyte membrane such that a scale can be formed on the surface of the auxiliary electrode. A spacer 60 is inserted between the anode and the cathode. Tap water as well as pure water and cation-exchanged water can be used as a raw material water to produce high-concentration ozone water. A uniformity of pressure between the electrodes and the solid polymer electrolyte membrane can be achieved, thereby providing for a stable operation.



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